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LERNER AND GREENBERG, P.A.

PATENT ATTORNEYS AND ATTORNEYS AT LAW

2445 Hollywood Boulevard
Hollywood, Florida 33020
Tel: (954) 925-1100
Fax: (954) 925-1101

Herbert L. Lerner (NY Bar)
Laurence A. Greenberg (FL Bar)

Werner H. Sterner (FL Bar), Senior Attorney

Ralph E. Locher (FL, IL, MO Bars)
Manfred Beck (US & German Pat. Agent)
Mark P. Weichselbaum (TN Bar)
Gregory L. Mayback (FL Bar)
Markus Nolff (FL Bar)
Loren Donald Pearson (FL Bar)
Otto S. Kauder (Reg. Pat. Agent)
Denise A. Lettau (DC Bar)

PATENTUSASM
www.patentusa.com
patents@patentusa.com

Mailing Address:
Post Office Box 2480
Hollywood, FL 33022-2480

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New York Office
153 E 57th Street
Suite 15G
New York, NY 10022

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Docket No.: L&L-I0178


MICHAEL BURNS

Date: November 28, 2001

Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

Enclosed herewith are the necessary papers for filing the following application for Letters
Patent:

Applicant : LOTHAR RISCH ET AL.

Title : DOUBLE GATE MOSFET TRANSISTOR AND METHOD FOR THE
PRODUCTION THEREOF

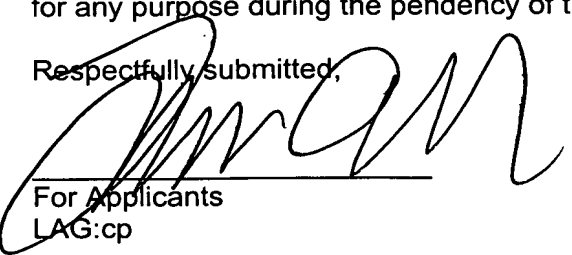
3 sheets of formal drawings.

The payment in the amount of \$830.00 covering the filing fee.
PCT Cover Sheet WO 00/74143 A1.

This application is being filed without a signed oath or declaration under the provisions of 37
CFR 1.53(f). Applicants await notification of the date by which the oath or declaration and
the surcharge are due, pursuant to this rule.

The Patent and Trademark Office is hereby given authority to charge Deposit Account No.
12-1099 of Lerner and Greenberg, P.A. for any fees due or deficiencies of payments made
for any purpose during the pendency of the above-identified application.

Respectfully submitted,


LAURENCE A. GREENBERG
REG. NO. 29,308

For Applicants
LAG:cp

(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES
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Internationales Büro(43) Internationales Veröffentlichungsdatum
7. Dezember 2000 (07.12.2000)

PCT

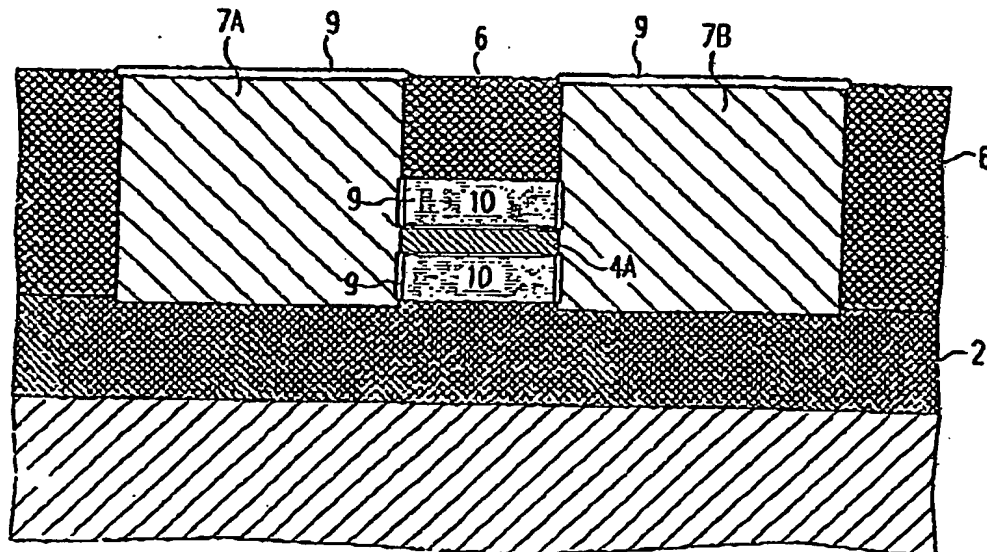
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- (51) Internationale Patentklassifikation⁷: H01L 29/786, 21/336 (72) Erfinder; und
(75) Erfinder/Anmelder (nur für US): RÖSNER, Wolfgang [DE/DE]; Heinzelmannstr. 2, D-81739 München (DE). SCHULZ, Thomas [DE/DE]; Annette Kolb Anger 13/V, D-81737 München (DE). RISCH, Lothar [DE/DE]; Tizianstr. 27, D-85579 Neubiberg (DE).
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- (71) Anmelder (für alle Bestimmungsstaaten mit Ausnahme von US): INFINEON TECHNOLOGIES AG [DE/DE]; St. Martin-Str. 53, D-81541 München (DE).
- (74) Gemeinsamer Vertreter: INFINEON TECHNOLOGIES AG; c/o Lambsdorff & Lange, Dingolfinger Strasse 6, 81673 München (DE).
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- Veröffentlicht: Mit internationalem Recherchenbericht.

[Fortsetzung auf der nächsten Seite]

(54) Title: DOUBLE GATE MOSFET TRANSISTOR AND METHOD FOR THE PRODUCTION THEREOF

(54) Bezeichnung: DOPPEL-GATE-MOSFET-TRANSISTOR UND VERFAHREN ZU SEINER HERSTELLUNG



(57) Abstract: The invention relates to a double gate MOSFET transistor and to a method for the production thereof. According to the invention, a semiconductor layered structure (4A) of a transistor channel to be formed is embedded in a placeholder material (3, 5) and is contacted by source (7A) and drain regions (7B) which are placed in recesses that are etched on opposing sides of the semiconductor layered structure (4A). In addition, the placeholder material (3, 5) is selectively etched out and is replaced by the electrically conductive gate electrode material (10).

[Fortsetzung auf der nächsten Seite]

WO 00/74143 A1